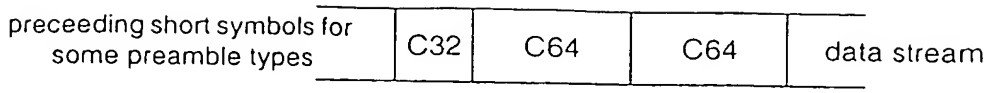

Fig. 1

CP: cyclic prefix

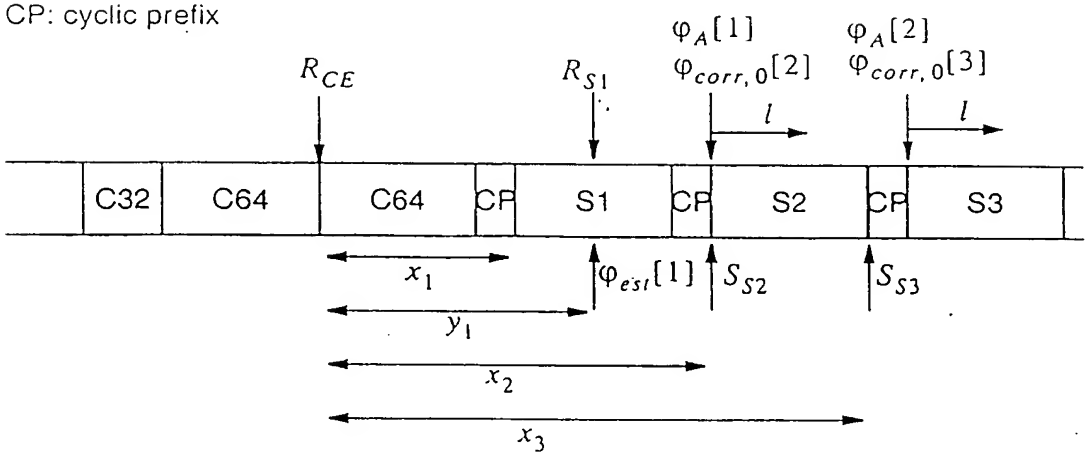

Fig. 2

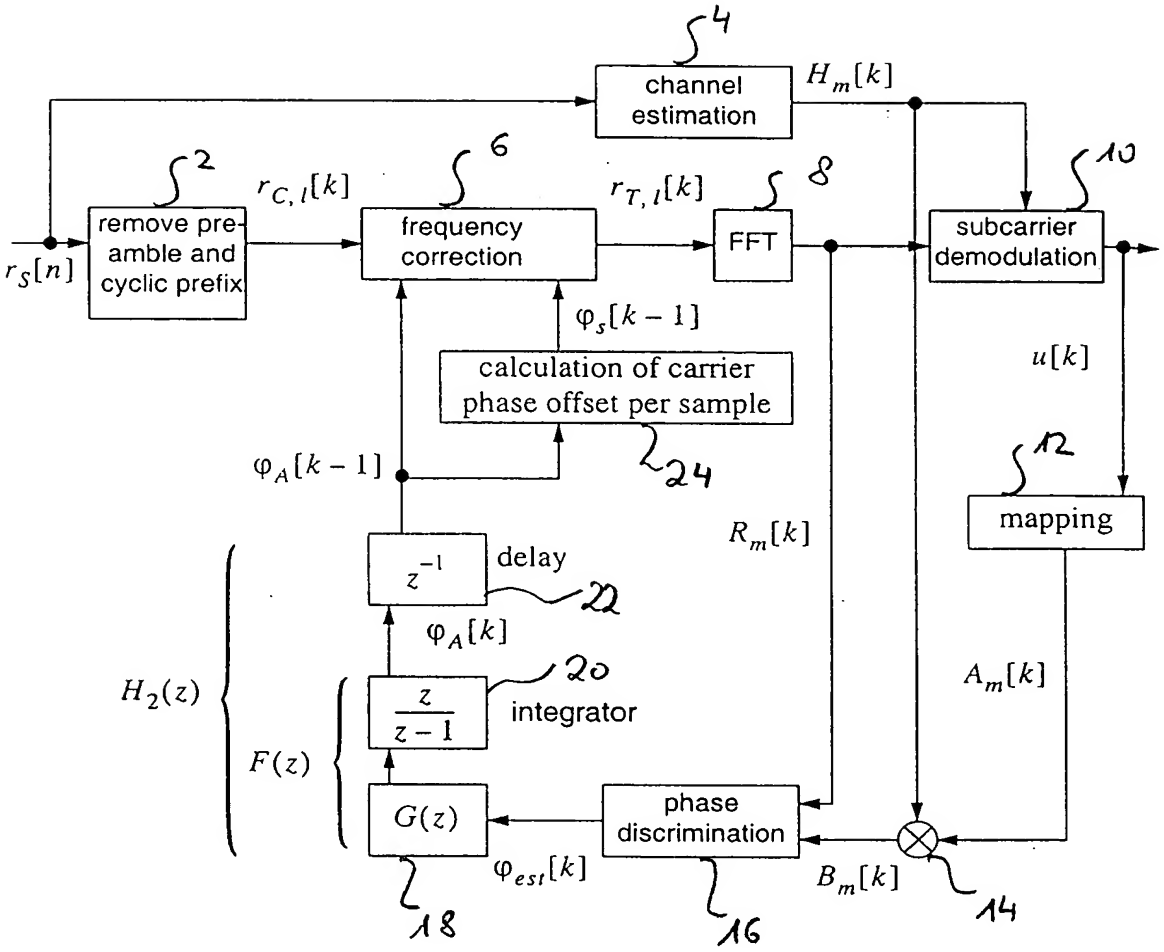
4
channel estimation
$H_m[k]$
2
$r_{C,l}[k]$
6
$r_{T,l}[k]$
8
10
remove pre-amble and cyclic prefix
frequency correction
FFT
subcarrier demodulation
$r_S[n]$
$\varphi_s[k-1]$
calculation of carrier phase offset per sample
24
$u[k]$
12
$\varphi_A[k-1]$
mapping
$R_m[k]$
z^{-1}
delay
22
$\varphi_A[k]$
$A_m[k]$
$H_2(z)$
20
$\frac{z}{z-1}$
integrator
$F(z)$
$G(z)$
phase discrimination
$\varphi_{est}[k]$
$B_m[k]$
18
16
14

Fig. 3

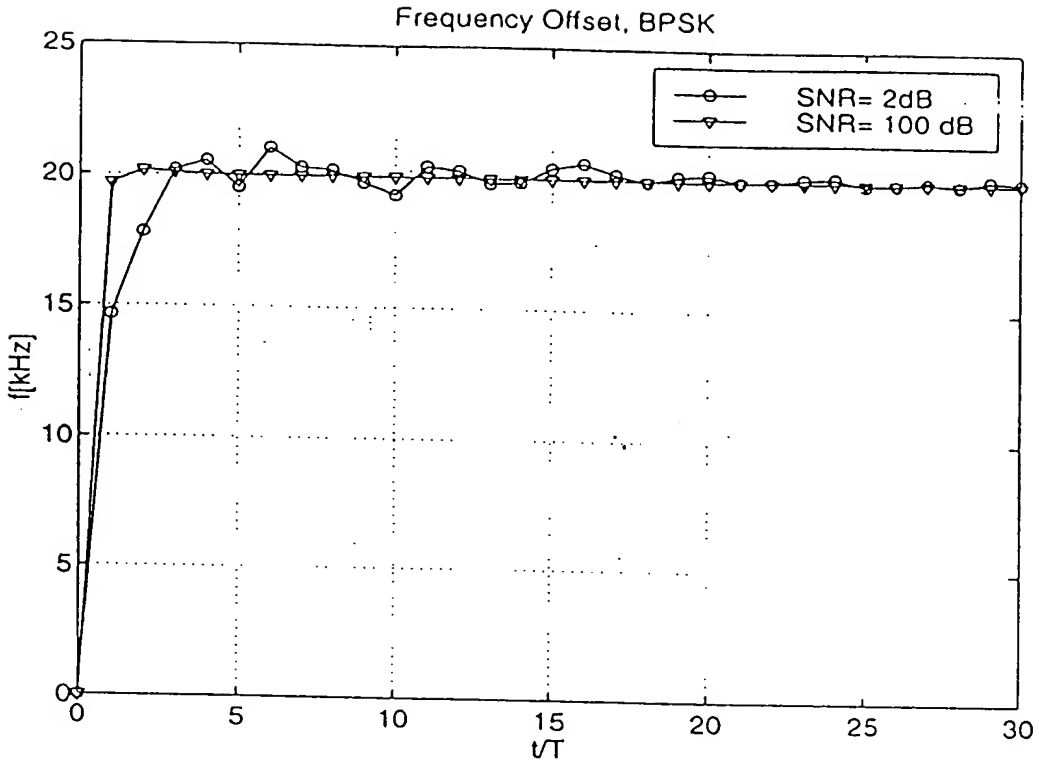

Fig. 4

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